

APPENDIX A

**CLEAN VERSION OF CHANGES TO THE SPECIFICATION,
ALL PENDING CLAIMS
and ABSTRACT OF THE DISCLOSURE**

Amended Specification:

The disclosure of this application is related to the disclosures of the following co-pending applications being filed on the same day: U.S. Patent Application Nos. 09/850,721 and 09/850,728.

Pending Claims:

1. (Amended) A combined radiation and drug delivery catheter for inhibiting hyperplasia, comprising:
a catheter body having a proximal end and a distal end;
an ionizing radiation source coupleable to the catheter body for applying a radiation dose to a body lumen; and
means coupleable to the catheter body or the radiation source for releasing a radiosensitizer to the body lumen, wherein the combined radiation and radiosensitizer delivery catheter inhibit hyperplasia.
2. (As filed) A delivery catheter as in claim 1, wherein the ionizing radiation source is an x-ray tube.
3. (Withdrawn) A delivery catheter as in claim 1, wherein the ionizing radiation source is a radioisotope.
4. (Withdrawn) A delivery catheter as in claim 1, wherein the ionizing radiation source is a receptacle in the catheter body for receiving radioisotopic materials.
5. (As filed) A delivery catheter as in claim 1, wherein the means comprises a source of at least one radiosensitizer selected from the group consisting of taxol,

misonidazole, metronidazole, etanidazole, 5-fluorouracil, texaphyrin, C225, and cyclooxygenase-2 inhibitor.

6. (As filed) A delivery catheter as in claim 1, wherein the means comprises a source of taxol incorporated in a solution with polyoxyethylated castor oil and dehydrated alcohol.

7. (As filed) A delivery catheter as in claim 1, wherein the radiosensitizer is attached or encapsulated in a lipid or surfactant carrier.

8. (As filed) A delivery catheter as in claim 1, wherein the means for releasing the radiosensitizer comprises a microporous balloon on the catheter body.

9. (As filed) A delivery catheter as in claim 8, wherein the microporous balloon contains the radiosensitizer and the radiosensitizer is released from the microporous balloon by elution from pores.

10. (As filed) A delivery catheter as in claim 9, wherein the microporous balloon is inflatable with the radiosensitizer .

11. (As filed) A delivery catheter as in claim 1, wherein the means for releasing the radiosensitizer comprises a matrix formed over at least a portion of a balloon on the catheter body, wherein the radiosensitizer is in or beneath the matrix.

12. (As filed) A delivery catheter as in claim 11, wherein the matrix comprises a rate controlling material, wherein the rate controlling material controls the rate at which the radiosensitizer is released from or through the matrix.

13. (As filed) A delivery catheter as in claim 12, wherein the radiosensitizer is released from the matrix by diffusion through the matrix.

14. (As filed) A delivery catheter as in claim 12, wherein the radiosensitizer is released from the matrix by degradation of the matrix.

15. (As filed) A delivery catheter as in claim 12, wherein the rate controlling material is porous and the radiosensitizer is released from the material by elution from pores.

16. (As filed) A delivery catheter as in claim 11, wherein the radiosensitizer is disposed on the balloon.

17. (As filed) A delivery catheter as in claim 8 or 11, wherein the ionizing radiation source is positionable within the balloon.

18. (Withdrawn) A delivery catheter as in claim 1, wherein the ionizing radiation source is a radioisotopic balloon and the means for releasing the radiosensitizer comprises a matrix formed over at least a portion of the radioisotopic balloon, wherein the radiosensitizer is in or beneath the matrix.

19. (Amended) A delivery catheter as in claim 8 or 11, further comprising perfusion threading on an outer surface of the balloon.

20. (As filed) A delivery catheter as in claim 19, wherein the threading has a spiral, helical, or angled pattern.

21. (Amended) A delivery catheter as in claim 8 or 11, wherein the catheter body has a perfusion lumen.